



FPT300F

Homopolymer Polypropylene

- Good Mold Release, Excellent Part Finish (Low Bloom)
- Suggested Uses Include Housewares, Caps and Closures, Mugs / Cups, Thin-Walled Containers

Property	Units	Typical Value	Test Method
Nominal Melt Flow Rate (230°C/2.16kg)	g/10 min	30	ASTM D1238
Tensile Strength at Yield (2 in/min, 50 mm/min)	psi MPa	4,800 33	ASTM D638
Elongation at Yield (2 in/min, 50 mm/min)	%	10	ASTM D638
Flexural Modulus (0.05 in/min, 1.3 mm/min, 1% secant)	psi MPa	200,000 1,379	ASTM D790A
Notched Izod Impact Strength at 23°C	ft-lbs/in J/m	0.7 37	ASTM D256A
Rockwell Hardness	R	104	ASTM D785

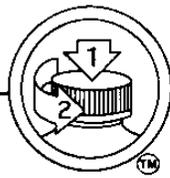
Information contained herein is considered accurate to our best knowledge. It is offered for your consideration and investigation, and is not to be construed as a representation or warranty, expressed or implied, for which Braskem assumes legal responsibility. Our warranties are limited to those expressly stated in formal contracts or in conditions of sale on our invoices and order acceptances. Conditions and methods of use vary and are beyond the control of Braskem. Braskem, therefore, disclaims any liability incurred as a result of the use of its products in accordance with the data contained herein. No information herein shall be construed as an offer of indemnity for infringement or as a recommendation to use these products in such a manner as to infringe any patent, domestic or foreign.

For cautions and other information relating to handling of
and exposure to this product, please see material safety
data sheet code number C4001 published by Braskem.

550 Technology Drive
Pittsburgh, PA 15219
1-800-223-8871

Revision Date: Monday,
March 23, 2009

www.braskem.com



Product Data Sheet

CP0001 Grade

Polypropylene, Impact Copolymer

Product Description

CP0001 is a high flow, high impact polypropylene copolymer grade resin designed for molding applications requiring good balance stiffness, impact resistance and process ability. This grade specification designated by Mold-Rite Plastics covers all copolymer resins that meet the typical value data listed below.

Regulatory Compliance

FDA-21 CFR 177.1520(c) 3.1 for Food & Drug Contact

RoHS Compliant

CONEG/Heavy Metal Compliant

Proposition 65 Compliant

EU Directive 2002/72/EC Compliant

Typical Properties	Method	Typical Value	Unit
Physical			
Density – Specific Gravity	ASTM D 792	.900 - .905	sp gr. 23/23° C
Melt Flow Rate	ASTM D 1238	35.0	g/10 min
Mechanical			
Tensile Strength @ Yield (2 in/min) (50 mm/min)	ASTM D 638	3,100 – 4,000 21.4 – 27	PSI MPa
Flexural Modulus (0.05 in/min, 1% Secant, Procedure A) (1 mm/min, 1% Secant, Procedure A)	ASTM D 790	160,000 – 210,000 1,103 – 1,450	PSI MPa
Impact			
Notched Izod impact (23 °C, Method A)	ASTM D 256	1.4 – 2.4 75 – 128	Ft-lb/in J/m
Thermal			
Heat Deflection (Softening Point) Unannealed DTLU @ 66psi	ASTM D 648	212 – 225 88 – 107	°F °C
Processing Range	-----	400 – 500	°F

For further regulatory information contact Mold-Rite Plastics customer service or sales department.

Notes: These are typical properties not to be construed as specifications. Mold-Rite Plastics reserves that right to include any other resin grade that meets that above data values and regulatory requirements.

This product data sheet covers multiple resin formulations and include any other resin grade that meets the above typical data values and regulatory requirements. All listed grades have similar physical, chemical and processing properties. Listed known grades; 44FY01; SG802N; AP5135H; 4820WZ; 6535A; 2535A

All results were obtained from manufacturer product data sheets (where applicable). The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of Mold-Rite Plastics products must be guided by the users own methods for selection of proper formulation. Mold-Rite Plastics disclaims any responsibility for misuse or miss application of its products. Mold-Rite Plastics liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option for replacement not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.

	Raw Material Product Data Sheet	
	Product Name: MRPWH01	Revision #: A
	Revision Date	03/07/2019
	Effective Date	07/01/2019

Product Name:

MRPWH01

Product Description:

FDA Compliant White colorant, intended to be used with injection-molded plastic resin

Product Data:

Additives None

<u>Typical Properties</u>	<u>Typical Value</u>
Delta E Tolerance	Less than 2.00
Visual Evaluation	Visual match to approved color standard

FDA Compliance/Status

FDA, Title 21 CFR Food & Drug Contact	<input checked="" type="checkbox"/> Compliant	<input type="checkbox"/> Not
---------------------------------------	---	------------------------------

This colorant formulation has been manufactured using FDA approved ingredients and, when used appropriately (with an FDA approved resin), will meet FDA contact applications regulated under the provisions of the Food, Drug, and Cosmetic Act (and subsequent amendments as outlined in Title 21 of the Code of Federal Regulation).

Additional Compliance/Status (and amendments as of the date of this document)

Proposition 65, Safe Drinking Water and Toxic Enforcement Act	<input checked="" type="checkbox"/> Compliant	<input type="checkbox"/> Not
CONEG, Model Toxics in Packaging Legislation	<input checked="" type="checkbox"/> Compliant	<input type="checkbox"/> Not
EU 2015/863, as regards the list of restricted substances, RoHS	<input checked="" type="checkbox"/> Compliant	<input type="checkbox"/> Not

For further regulatory information, please contact Mold Rite Plastic's customer service or sales department.

This product data sheet addresses all colorants that meet the above requirements & specifications. Data was obtained from supplier product data sheets (where applicable). This data is intended to be used as a guide only. It is ultimately the customer's responsibility to determine the suitability of the material for their specific application, and to be responsible for assuring compliance with all applicable laws and regulations.

HS 035 HEAT SEAL/20F

MRP Description - (021)HS035.020 R SFYP

- Designed as a one-piece, polystyrene backed, induction heat seal with an ethylene vinyl acetate based sealant layer that gives a tamper evident bond to Polyethylene (PE), Polypropylene (PP), Polyester (PET), Polystyrene (PS), Vinyl (PVC) and glass containers.
- Available with standard or custom print.

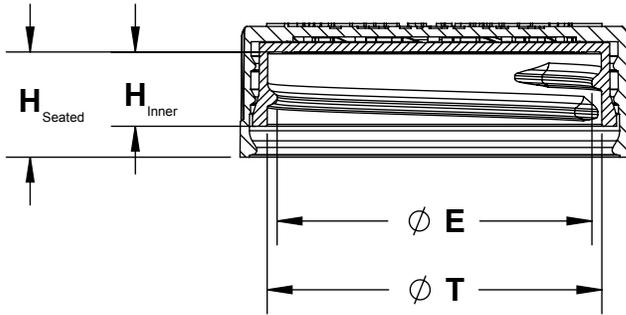
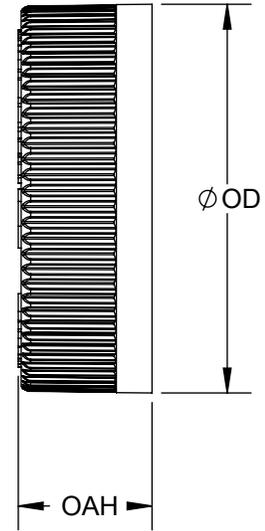
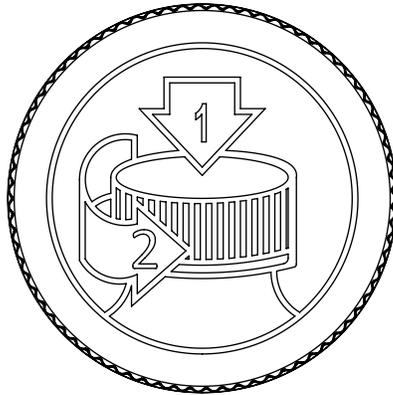
Typical Product Attributes

Construction			
Polystyrene Foam Paper Aluminum Foil Heat Seal		SI (µm)	US (Mils)
		508,0	20.0
		71,1	2.8
		8,9	0.35
		63,5	2.25
Minimum Width		25,4 mm	1.0 inch
Width Tolerance		± 1,6 mm	± 1/16
Properties			
Water Vapor Transmission (WVTR)	Essentially Zero		
Gas (O ₂) (GTR)	Essentially Zero		
Regulatory Compliance			
FDA Compliance	21 CFR 177.1640 Polystyrene and rubber-modified polystyrene. 21 CFR 177.1350 Ethylene-vinyl acetate copolymers. 21 CFR 177.1210 Closures with sealing gaskets for food containers 21 CFR 176.180 Components of paper and paperboard in contact with dry foods. 21 CFR 176.170 Components of paper and paperboard in contact with aqueous and fatty foods.		
Drug Master File (DMF)	2518		
Other Compliances	USFDA Food Allergen Guidelines; California Proposition 65 Labeling Requirements; Limitations of Heavy Metals in Packaging per CONEG & EU 94/62/EC, Article 11		

Original Date: 2016-03-25
 Revised Date: N/A
 Revision Number: 0
 Created by PEY

DISCLAIMER: This information is believed to be accurate at the time of printing and is subject to change without notice. Providing this information does not convey any licenses under any patent rights or intellectual property rights of Tri-Seal or others. TRI-SEAL MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM RELIANCE ON IT. Tri-Seal's only warranties for this product are those written warranties as may be agreed to by Tri-Seal and its customers. TRI-SEAL SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE.

Tri-Seal
 a Tekni-Plex company
 16125 Armour St. N.E.
 Alliance, OH 44601
 Tel: 330-821-1166 – Fax: 330-821-0364
www.tri-seal.tekni-plex.com



SECTION X-X
SCALE 1 : 1

6 THRS PER INCH, .167 PITCH,
380° FULL DEPTH THREAD

REFERENCE	TOLERANCE	DIMENSION	UNITS
E	±0.010 [0.25]	1.658 [42.11]	in [mm]
T	±0.010 [0.25]	1.752 [44.50]	in [mm]
H [Seated]	REFERENCE	0.548 [13.92]	in [mm]
H [INNER]	±0.010 [0.25]	0.385 [9.78]	in [mm]
OD	±0.012 [0.30]	2.044 [51.92]	in [mm]
OAH	±0.020 [0.25]	0.698[17.73]	in [mm]
PART WEIGHT	± 1.5	9.60	g

STATIC TORQUE RECOMMENDATION
17-27 in-lbs
THIS REQUIREMENT MAY VARY DEPENDING
UPON BOTTLE MATERIAL, NECK FINISH, AND
CAPPING EQUIPMENT

THE CLOSURE DIMENSIONS
DEPICTED ARE THOSE WHICH HAVE GENERALLY BEEN
FOUND TO BE FUNCTIONAL BASED ON INDUSTRY
EXPERIENCE BECAUSE OF VARIABILITY IN GLASS AND
PLASTIC CONTAINER FINISHES, EACH CLOSURE/FINISH
SYSTEM SHOULD BE INDIVIDUALLY EVALUATED AND
TESTED TO ENSURE IT MEETS APPLICABLE
PERFORMANCE CRITERIA. SEE QUALITY ASSURANCE
SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES
RESERVES THE RIGHT TO REVISE ANY OR ALL
SPECIFICATIONS AND REQUIREMENTS.

DRAWING TYPE : CUSTOMER

REPLACES DRAWINGS:

DIMENSIONS ENCLOSED IN ()
INDICATE REFERENCE
DIMENSIONS AND NO TOLERANCE
LIMITS ARE ESTABLISHED

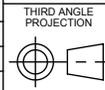
TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSION (inches)	TOLERANCE	DIMENSION (mm)	TOLERANCE
0-0.787	±0.006	0-20	±0.152
0.788-1.181	±0.008	21-30	±0.203
1.182-2.756	±0.012	31-70	±0.305
2.757-3.937	±0.016	71-100	±0.406
3.938-5.096	±0.020	101-150	±0.508
5.097-7.874	±0.024	151-200	±0.610
7.875-9.843	±0.032	201-250	±0.813

ANGULAR TOLERANCE ± 2°

PROPRIETARY AND CONFIDENTIAL

THIS DRAWING IS PROTECTED BY COPYRIGHT AND CONTAINS INFORMATION
PROPRIETARY TO MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES.
ANY REPRODUCTION, DISCLOSURE, OR USE OF ITS CONTENTS OR ANY PART
THEREOF IS EXPRESSLY PROHIBITED EXCEPT AS MOLD-RITE, WEATHERCHEM
AND STULL TECHNOLOGIES OTHERWISE MAY AGREE IN WRITING



DISTRIBUTION
CODE

D

DRAWING NAME

45-400 CRC Assm
PICTO

DRAWING NUMBER

CQA - 10151

MATERIAL

POLYPROPYLENE

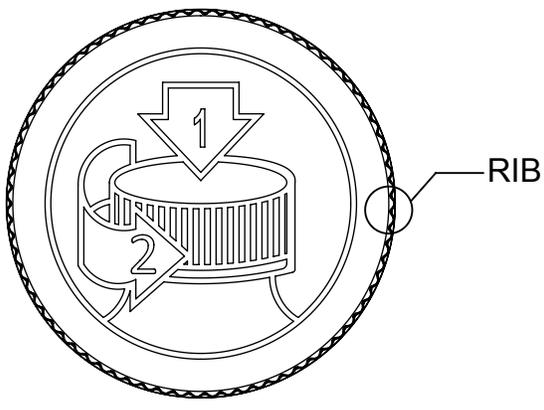
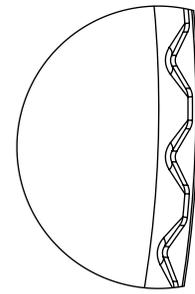
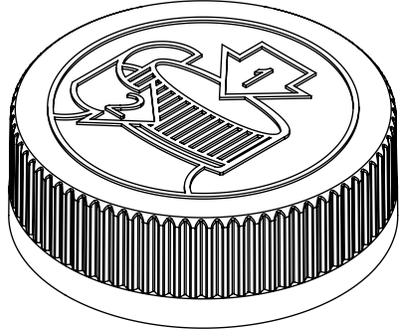
MODEL NUMBER:

PM 10137 45-400 PDT CRC Assembly

DRAWN BY:	BDG	9/4/2015
ENG APPR.	BDG	11/21/2019
QA APPR.	REL	12/17/2019

SCALE	SHEET SIZE	SHEET	REV/ NP
1:2	8.5" X 11"	1 of 3	01.AD

REVISIONS						
DATE	REV	N/P	PDR	DESCRIPTION	ENG	DRW
09/04/2015	01	AA	-	Drawing Released	BDG	-
09/18/2015	01	AB		Corrected Leader Locations for T and E	BDG	-
06/17/2016	01	AC		Page 3. Changed H1 to Minimum	BDG	-
11/21/2019	01	AD		Updated drawing template and corrected metric conversions	BDG	BDG



DETAIL RIB
SCALE 6 : 1
(75) EQUISPACED RIBS

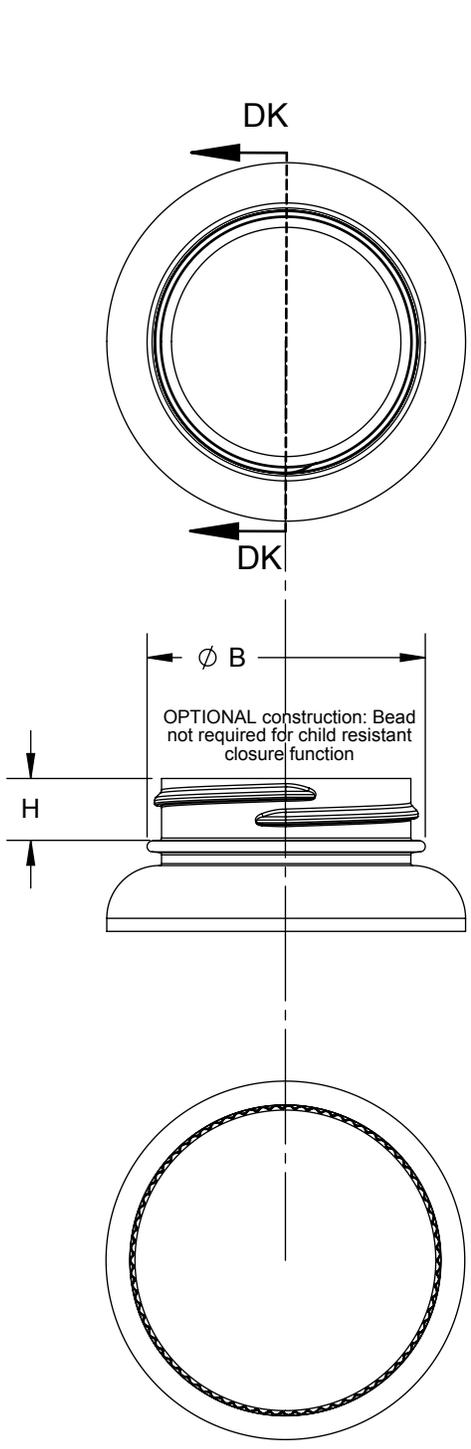
THE CLOSURE DIMENSIONS DEPICTED ARE THOSE WHICH HAVE GENERALLY BEEN FOUND TO BE FUNCTIONAL BASED ON INDUSTRY EXPERIENCE BECAUSE OF VARIABILITY IN GLASS AND PLASTIC CONTAINER FINISHES. EACH CLOSURE/FINISH SYSTEM SHOULD BE INDIVIDUALLY EVALUATED AND TESTED TO ENSURE IT MEETS APPLICABLE PERFORMANCE CRITERIA. SEE QUALITY ASSURANCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES RESERVES THE RIGHT TO REVISE ANY OR ALL SPECIFICATIONS AND REQUIREMENTS.

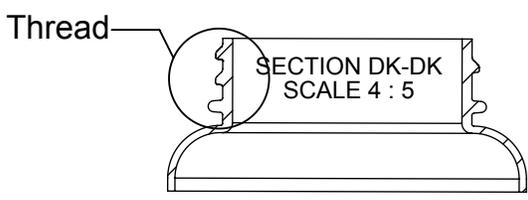
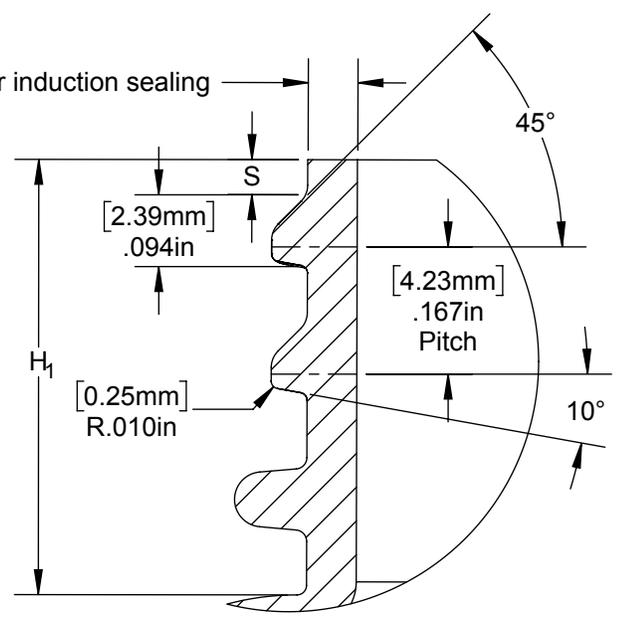
DRAWING TYPE : CUSTOMER			
REFERENCES:		DIMENSIONS ENCLOSED IN () INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED	
TOLERANCES UNLESS OTHERWISE SPECIFIED			
DIMENSION (inches)	TOLERANCE	DIMENSION (mm)	TOLERANCE
0-0.787	±0.006	0-20	±0.152
0.788-1.181	±0.008	21-30	±0.203
1.182-2.756	±0.012	31-70	±0.305
2.757-3.937	±0.016	71-100	±0.406
3.938-5.096	±0.020	101-150	±0.508
5.097-7.874	±0.024	151-200	±0.610
7.875-9.843	±0.032	201-250	±0.813
ANGULAR TOLERANCE ± 2°			
PROPRIETARY AND CONFIDENTIAL			
THIS DRAWING IS PROTECTED BY COPYRIGHT AND CONTAINS INFORMATION PROPRIETARY TO MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES. ANY REPRODUCTION, DISCLOSURE, OR USE OF ITS CONTENTS OR ANY PART THEREOF IS EXPRESSLY PROHIBITED EXCEPT AS MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES OTHERWISE MAY AGREE IN WRITING			



THIRD ANGLE PROJECTION		DISTRIBUTION CODE		DRAWING NAME			
D		D		45-400 CRC Assm PICTO			
DRAWN BY: BDG		9/4/2015		DRAWING NUMBER			
ENG APPR: BDG		11/21/2019		CQA - 10151			
QA APPR: REL		12/17/2019		MATERIAL			
				POLYPROPYLENE			
				MODEL NUMBER:			
				PM 10137 45-400 PDT CRC Assembly			
				SCALE	SHEET SIZE	SHEET	REV.NP
				1:2	8.5" X 11"	2 of 3	01.AD



.050 MINIMUM flat for induction sealing



DETAIL Thread
SCALE 4 : 1

REFERENCE	TOLERANCE	UNITS	DIMENSION
E	± 0.017 [0.43]	in [mm]	1.631 [41.43]
T	± 0.017 [0.43]	in [mm]	1.725 [43.82]
I	MINIMUM	in [mm]	1.500 [38.10]
S	± 0.015 [0.38]	in [mm]	0.046 [1.17]
H	MINIMUM	in [mm]	0.405 [10.29]
H1	MINIMUM	in [mm]	0.570 [14.48]
B	MAXIMUM	in [mm]	1.820 [46.23]
TPI			6
PITCH		in [mm]	0.167 [4.24]

THE CLOSURE DIMENSIONS DEPICTED ARE THOSE WHICH HAVE GENERALLY BEEN FOUND TO BE FUNCTIONAL BASED ON INDUSTRY EXPERIENCE BECAUSE OF VARIABILITY IN GLASS AND PLASTIC CONTAINER FINISHES, EACH CLOSURE/FINISH SYSTEM SHOULD BE INDIVIDUALLY EVALUATED AND TESTED TO ENSURE IT MEETS APPLICABLE PERFORMANCE CRITERIA. SEE QUALITY ASSURANCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES RESERVES THE RIGHT TO REVISE ANY OR ALL SPECIFICATIONS AND REQUIREMENTS.

DRAWING TYPE : CUSTOMER			
REFERENCES:		DIMENSIONS ENCLOSED IN () INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED	
TOLERANCES UNLESS OTHERWISE SPECIFIED			
DIMENSION (inches)	TOLERANCE	DIMENSION (mm)	TOLERANCE
0-0.787	± 0.006	0-20	± 0.152
0.788-1.181	± 0.008	21-30	± 0.203
1.182-2.756	± 0.012	31-70	± 0.305
2.757-3.937	± 0.016	71-100	± 0.406
3.938-5.096	± 0.020	101-150	± 0.508
5.097-7.874	± 0.024	151-200	± 0.610
7.875-9.843	± 0.032	201-250	± 0.813
ANGULAR TOLERANCE $\pm 2^\circ$			
PROPRIETARY AND CONFIDENTIAL			
THIS DRAWING IS PROTECTED BY COPYRIGHT AND CONTAINS INFORMATION PROPRIETARY TO MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES. ANY REPRODUCTION, DISCLOSURE, OR USE OF ITS CONTENTS OR ANY PART THEREOF IS EXPRESSLY PROHIBITED EXCEPT AS MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES OTHERWISE MAY AGREE IN WRITING			



THIRD ANGLE PROJECTION	DISTRIBUTION CODE	DRAWING NAME	
	D	45-400 CRC Assm Recommended Neck Finish	
SOLIDWORKS		DRAWING NUMBER	
		CQA - 10151	
DRAWN BY.	BDG	9/4/2015	MATERIAL
			POLYPROPYLENE
ENG APPR.	BDG	11/21/2019	MODEL NUMBER:
			PM 10137 45-400 PDT CRC Assembly
QA APPR.	REL	12/17/2019	SCALE
			1:2
			SHEET SIZE
			8.5" X 11"
			SHEET
			3 of 3
			REV.NP
			01.AD